APPENDIX F DUMMY POSITIONING PROCEDURES FOR DRIVER AND PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

APPENDIX F DUMMY POSITIONING PROCEDURES FOR DRIVER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

NHIS	A No		le	st Date:
Labora	atory:	Test Technician(s):	:	
Impact	t Angle:	Belted Dummies: _	_Yes	No
Test S	peed:32 to 40 kmp	h0 to 48 k	mph	0 to 56 kmph
1.		eat back angle		
2.	If adjustable, set the hea	ad restraint at the full up pos vertical, adjust them as reco		
3.	Place any adjustable se position for a 50th perce	at belt anchorages at the veentile adult male occupant (Supper seat belt anchorage danchorage position.		anufacturer's nominal design
4.	Place adjustable pedalsN/A – the pedals are	in the full forward position.		
5.	Set the steering wheel h	nub at the geometric center or group in the geometric center or group in the group		
6.	Place the dummy in the longitudinal seat cushion	seat such that the midsagitt	tal plane n Data S	
7. 8.	Rest the thighs on the seposition the H-point of the the horizontal dimension Sheet 15. (S10.4.2.1) Then measure the pelvic Adjust the dummy positi (S10.4.2.1 and S10.4.2.	eat cushion. (S10.5) ne dummy within 0.5 inch of n of a point 0.25 inch below to c angle with respect to the h on until these three measure 2)	the ver the H-po norizonta ements	al using the pelvic angle gage. are within the specifications.
	(S10.4.2.1)vertical inches from (S10.4.2.1)	the point 0.25 below the de		ined H-point (0.5 inch max.) ed H-point (0.5 inch max.)
9.	pelvic angle (20° to ls the head level within 2Yes, go to 10No, go to 9.1	± 0.5°? (S10.1)		
9 1	Adjust the position of the	e H-point (S10.1)		

9.2	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
	Yes, record the following, then go to 10No, go to 9.3
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
9.3	Adjust the pelvic angle. (S10.1)
9.4	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
0	Yes, record the following, then go to 10No, go to 9.5
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
9.5	Adjust the neck bracket of the dummy the minimum amount necessary from the non-
	adjusted "0" setting until the head is level within $\pm 0.5^{\circ}$. (S10.1)
	Record the following, then go to 10
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
10.	Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.
	measured distance (10.6 inches) (S10.5)
11.	
' ' ' .	Can the right foot be placed on the accelerator?
	Yes, go to 11.1 and skip 11.2
	No, go to 11.2
11.1.	To the extent practicable keep the right thigh and the leg in a vertical plane (S10.5) while
	resting the foot on the undepressed accelerator pedal with the rearmost point of the heel
	on the floor pan in the plane of the pedal. (\$10.6.1.1)
11.2	Initially set the foot perpendicular to the leg and then place it as far forward as possible in
	the direction of the pedal centerline with the rearmost point of the heel resting on the floor
	pan. (S10.6.1.1)
11 2	1 Move the adjustable pedal to its most rearward position or until the right foot is flat on
11.2.	
	the pedal, whichever occurs first. (S10.6.1.1)
	N/A – the accelerator pedal is not adjustable
12.	Does the vehicle have a foot rest?
	Yes, go to 12.1
	No, go to 12.2
12.1	With the left thigh and leg in a vertical plane, place the left foot on the foot rest with the
	heel resting on the floor pan. (S10.6.1.2)
12 1	1 Is the left foot elevated above the right foot?
12.1.	
	Yes, go to 12.2 and position the foot off the foot rest
	No, go to 13
12.2	Check the ONLY one of the following that applies
	The left foot reaches the toeboard without adjusting the foot or leg. To the extent
	practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and
	place the foot on the toeboard, skip 12.3 (S10.6.1.2)
	The left foot reaches the toeboard but contacts the brake or clutch pedal and must
	be rotated to avoid pedal contact. To the extent practicable keep the left thigh and the
	leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard. The foot
	was rotated about the leg to avoid pedal contact, skip 12.3 (S10.6.1.2)
	The left foot reaches the toeboard but contacts the brake or clutch pedal and the foot
	and leg must be rotated to avoid pedal contact. To the extent practicable keep the left
	thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the

12.3	toeboard. The foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact, skip 12.3 (S10.6.1.2) N/A – the foot does not reach the toeboard, go to 12.3 Check the ONLY one of the following that applies	
	The left foot did not contact the brake or clutch pedal. To the extent practicable kee the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan. (S10.6.1.2)	
	The left foot did contact the brake or clutch pedal and the foot was rotated to avoid contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan and rotate the foot the minimum amount to avoid pedal contact. (S10.6.1.2)	
	The left foot did contact the brake or clutch pedal and the foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact. Set the foot perpendicular to the leg and place it as far forward a possible with the heel resting on the floor pan and rotate the foot about the leg and the thigh and leg outboard about the hip the minimum distance necessary to avoid pedal contact. (S10.6.1.2)	
13.	Place the right upper arm adjacent to the torso with the centerline as close to a vertical plane as possible. (S10.2.1)	
14.	Is the driver seat belt used for this test? Yes, continueNo, go to 15	
14.1	Fasten the seat belt around the dummy.	
14.2	Remove all slack from the lap belt portion. (S10.9)	
	Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)	
	Apply a 2 to 4 pound tension load to the lap belt. (S10.9)pound load applied	
14.5	Is the belt system equipped with a tension-relieving device? Yes, continue No, go to 15	
14.6	Introduce the maximum amount of slack into the upper torso bet that is recommended by the vehicle manufacturer in the vehicle owner's manual. (S10.9).	
15.	Place the left upper arm adjacent to the torso with the centerline as close to a vertical plane as possible. (S10.2.1)	
16.	Place the right hand with the palm in contact with the steering wheel at the rim's horizontal centerline and with the thumb over the steering wheel. (S10.3.1)	
17.	Place the left hand with the palm in contact with the steering wheel at the rim's horizontal centerline and with the thumb over the steering wheel. (\$10.3.1)	
18.		
Lectify	that I have read and performed each instruction. Date	
. cortiny	that that a read and performed each metablion.	

APPENDIX F DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

NHTSA No.		Test Date:		
Laboratory:		Test Technician(s):		
Impact Angle:		Belted Dummies:YesI	No	
Test Sp	peed:32 to 40 kmph	0 to 48 kmph	0 to 56 kmph	
1.	The seat is a bench seat for w driver and there are no indepe Go to 7. N/A- the passenger seat ad	ndent adjustments that can be	e made for the passenger.	
2.	Use the seat markings determ mid-fore-aft position, lowest heN/A – No seat back angle a Manufacturer's design seat bact Tested seat back angle Seat cushion angleN/A – No head restraint ad	ined during the completion of eight position (S8.1.2) and sea djustment ck angle	Data Sheet 14.2 to set the	
3.	If adjustable, set the head rest adjustments other than verticaN/A – No head restraint adjustments	raint at the full up position. (Si I, adjust them as recommende		
4.	Place any adjustable seat belt position for a 50th percentile aN/A – No adjustable upper semantage and Manufacturer's specified anch Tested anchorage position	anchorages at the vehicle madult male occupant (S8.1.3) seat belt anchorage	anufacturer's nominal design	
5.	Place the dummy in the seat s longitudinal seat cushion mark torso rests against the seat ba	tings as determined in of Data ck. (S10.4.1.1 & S10.4.1.2)		
6. 7.	(S10.4.2.1)vertical inches from the p (S10.4.2.1)	nmy within 0.5 inch of the vert point 0.25 inch below the H-po ecified in SAE J826 (APR 198 respect to the horizontal using	oint determined by using the 10). (S10.4.2.1) Then g the pelvic angle gage. are within the specifications.	
8.	pelvic angle (20° to 25°) Is the head level within ± 0.5°?Yes, go to 9	° (S10.1)		
8.1	No, go to 8.1 Adjust the position of the H-po	int. (S10.1 and S10.4.2.1)		

8.2	Is the head level within $\pm 0.5^{\circ}$? (\$10.1)
	Yes, record the following, then go to 9No, go to 8.3
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
8.3	Adjust the pelvic angle. (S10.1)
8.4	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
	Yes, record the following, then go to 9No, go to 8.5
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
8.5	Adjust the neck bracket of the dummy the minimum amount necessary from the non-
0.0	adjusted "0" setting until the head is level within $\pm 0.5^{\circ}$. (S10.1)
	Record the following, then go to 13
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	•
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
_	pelvic angle (20° to 25°) (S10.4.2.2)
9.	Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.
	measured distance (10.6 inches) (S10.5)
10.	Check the only one of the following that applies:
	To the extent practicable keep the left thigh and leg in a vertical plane and the right
	thigh and leg in a vertical plane, place the feet on the toeboard with the heels resting on
	the floor pan as close as possible to the intersection of the floor pan and toeboard.
	The feet cannot be placed flat on the toeboard. To the extent practicable keep the left
	thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet
	perpendicular to the legs and place them as far forward as possible with the heels resting
	on the floor pan.
	The vehicle has a wheelhouse projection. To the extent practicable keep the left thigh
	and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet
	perpendicular to the legs and place them as far forward as possible with the heels resting
	on the floor pan. Do not set the feet on the wheelhouse projection.
	The vehicle has a wheelhouse projection and the feet cannot be placed on the
	toeboard. To the extent practicable keep the left thigh and leg in a vertical plane and the
	right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place
	them as far forward as possible with the heel resting on the floor pan. Do not set the feet
	on the wheelhouse projection.
11.	Place the left upper arm in contact with the seat back and side of the torso. (S10.2.2)
12.	Is the passenger seat belt used for this test?
	Yes, continue
	No, go to 17
12 1	Fasten the seat belt around the dummy.
	Remove all slack from the lap belt portion. (S10.9)
	Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four
12.3	
40.4	times. (\$10.9)
12.4	Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
40 =	pound load applied
12.5	Is the belt system equipped with a tension relieving device?
	Yes, continue
	No. go to 13

12.6	Introduce the maximum amount of slack into the upp the vehicle manufacturer in the vehicle owner's man	
13.	Place the right upper arm in contact with the seat ba	ack and side of the torso. (S10.2.2)
14.	Place the left hand palm in contact with the outside contact with the seat cushion. (S10.3.2)	of the left thigh and the little finger in
15.	Place the right hand palm in contact with the outside in contact with the seat cushion. (S10.3.2)	e of the right thigh and the little finger
I certify	that I have read and performed each instruction.	Date